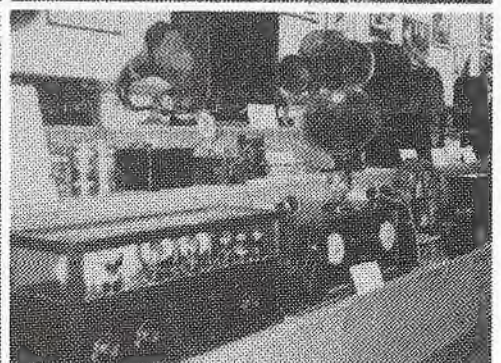
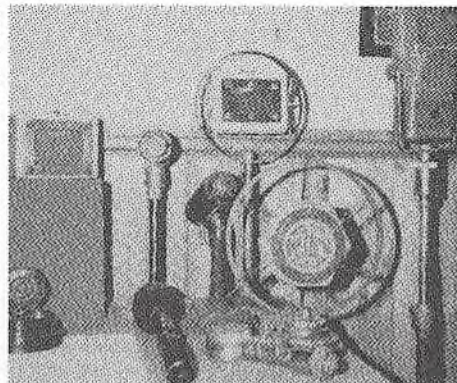
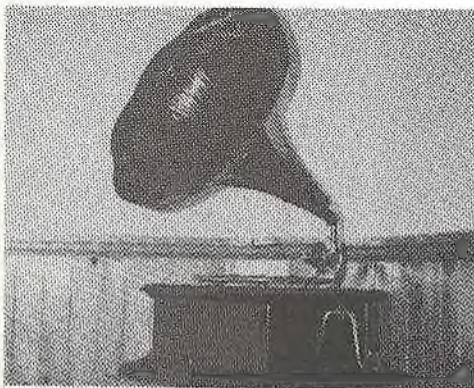


Sept 1988



B·A·R·G NEWS



© Monthly Newsletter of the
Ballarat Amateur Radio Group

BALLARAT AMATEUR RADIO GROUP INCORPORATED

OFFICERS 1988-1989

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Memb. Representative:	NEAL DAVIDSON	VK3 KQQ	35 9612	

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	DICK ANTOZIEWICZ	VK3 AEX	32 3273	31 1818
	GEOFF SMITH	VK3 ADB	33 2112	
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	MAURIE BATT	VK3 XEX	42 2245	
	PHIL SEDDON	VK3 AQM	31 5220	
	MURRAY FELSTEAD	VK3 AAI	41 2234	

B.A.R.G. meets on the **LAST FRIDAY** in every month except December at the Ballarat Education Centre, Hopetoun St., Ballarat at 7.30 p.m.

Committee meetings are held at the Education Centre on the Wednesday two weeks prior to the Club meeting at 7.30 p.m.
Executive committee members are expected to attend and any club member with business for discussion is welcome.

All correspondence to: The Secretary, BARG Inc., P.O. Box 216E, Ballarat East, 3350.
Applications for Awards to: Maurie Batt, RSD, Rokewood Junction, 3351.



CNR. RING RD. & WESTERN HWY BALLARAT
(OPEN 10AM - 5 PM 7 DAYS A WEEK)

FEATURES

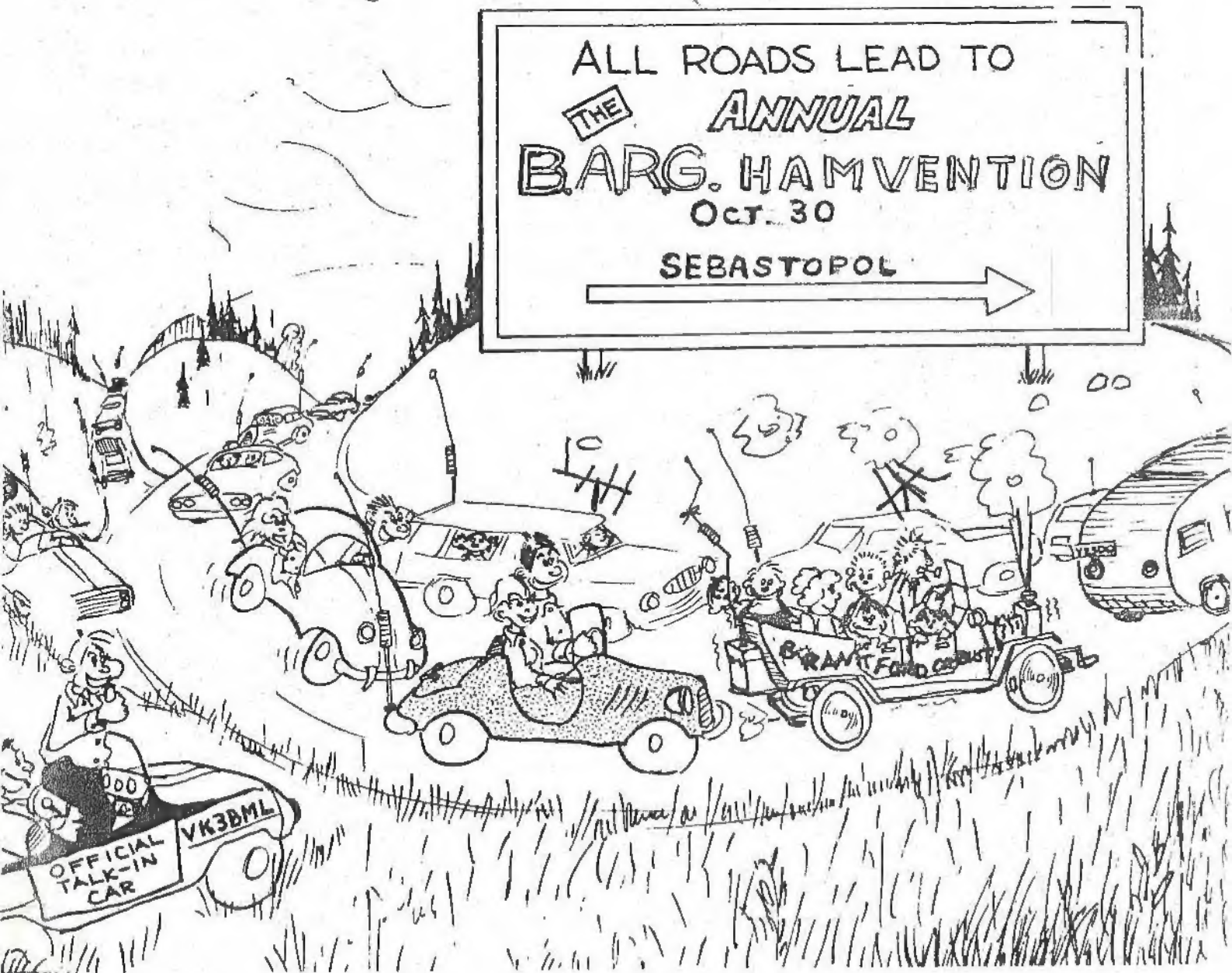
- GRAMOPHONES • VINTAGE RADIOS • VISITORS PARTICIPATION
- MEMORABILIA • AUDIO DISPLAYS • DEMONSTRATIONS • CRYSTAL SETS

The "Orpheus Radio Museum" is operated by Richard and Sonja Wilson.
The collection includes their private collection, the 3BA collection and other items on loan to the museum.
The museum is run with the idea of preserving the history of radio in Australia and making it accessible to the public.
If anyone has any information or items of interest to the museum, would they please contact, or write to, the "Orpheus Radio Museum" RSD B98, Ballarat 3352. Telephone (053) 34 2513.
Let the public enjoy your piece of Radio History.

88/09

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DON'T FORGET.



If you can help contact kevin Vk3wn.

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PRESIDENT'S CORNER

Ian BTX and myself attended the meeting at Bolac of the Western District division of W.I.A., and I think it was a very useful exercise. There was a letter from the Victorian Division confirming that they were responsible for the costs of licence fee and power of the repeaters and so this should quieten the doubt for awhile of who might pay the power bills. If you remember we had an account sent to us and obviously it was only for information. Also, the group understood the placing of R.B.S. which was to fill a gap in emergency communications, although infact we did accept money for a portable transmitter. This was not possible at the time and the letter sent by our Technical Officer was quite clear. The other point to come out of that was to keep 147.300 and 147.900 clear of course because this is used for emergency traffic. It was also known that the repeaters in a common location will have the same call signs and this will save alot of confusion and save money on licence fees.

This was mentioned by Leigh, who gave us that wonderful talk on WICEN and less time and he is co-ordinating in Victoria to see what gaps should be filled in with repeaters for any emergency situation. He is still collating the areas covered by the existing repeaters and he is drawing maps to show the distances that are covered. This should be a most interesting map when completed but is not ready for publication.

You will notice that the Western District net on Monday nights has a slightly different format in that it was difficult to communicate through 80 metres and 2 metres if the people only had one mode, and therefore it was considered quite legal to patch people through as now novices have a 2 metre facility. This calls for some slick work by the operator and Oliver demonstrated this one Monday night with great skill. Have a listen around 8 o'clock on or about 35800 I think, to pick up the district news and hear some new voices stretching down to Warrnambool and across and past Horsham etc.

Don't forget to let Kevin know if you are going to the Saturday night dinner at the Blue Bell before the Hamvention as they need to know that they will fill the appointed room and be ready to sell some tickets so that we can make it a success again as it always has been.

We have a letter wondering if anyone in the radio group would like to take over the distribution of Q.S.L. cards in Victoria for the W.I.A. It seems there has been a lull for three months with their distribution and even help might be needed. This was discussed at the executive meeting and it is seem as a mammoth job of dedication. Please think about it we will discuss it on our Friday night meeting.

Despite it being spring I am dictating this with my backside against a very hot heater at my place at work before I get the blood circulating to the cold hands-its a long way to go-so see you all at the meeting and remember any ideas for programs, social outings, projects, talks should be passed on to anyone you see around. Don't be shy!

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MINUTES OF GENERAL MEETING held 26/Aug. 1988.

MEETING opened at 1945 by President John who welcomed members and visitors.

APOLOGIES VK3, XEX, YMW, KAW, XOA, AA1, DS, KQQ, AFX, CFB,

MINUTES as circulated were confirmed CAZ - WN.

CORRESPONDENCE IN from Mars Confectionary. Not possible to visit at this time.

OUT To Eric Doherty thanking for being Guest Speaker at July meeting.

TREASURER'S REPORT RECEIPTS \$145-00
SALE OF PARTS \$32-00
PAYMENTS Australia Post Newsletter \$17-00
BANK BALANCE \$282-13
V.S. & L. ACCOUNT \$2281-13
TREASURER'S REPORT & ACCOUNTS for Payment passed by KQF/AXH.

QSL MANAGER JEFF PAP received 159 cards.

CLUB NET Co-ordinator FRED KQF reported a good net 25/8/88.

EDUCATION IAN AXH reported 25 candidates sat at Ballarat at the last exams in Ballarat. IAN OLDAKER passed full call. STEVE, GEOFF., & PAUL passed.

HAMVENTION KEVIN WN reported that the function was only 8 weeks away and tasks would be given at the next meeting. ADVERTISING would commence on the weekly broadcast and in AR & ARA with inserts in October AR.

TECHNICAL COMMITTEE Repeater RDA trouble as now fixed. The 432 MEG Beacon was up but not operating due to a small problem with the power supply.

WICEN LEIGH BAKER, State Co-ordinator was present as GUEST SPEAKER for the evening.

GENERAL BUSINESS IAN AXH reported re packet repeater that he was awaiting a reply to a letter in relation to choice of site. JEFF PAP requested the use of club DI-POLE for JOTA. Moved WN/AXH the permission be granted. CARRIED.

MEETING CLOSED at 2020K.
LEIGH BAKER then spoke to the club ob WICEN.

A MsMatch

It finally arrived! Hurray! At long last, I received the certificate for Field Day 1987. It read that I had achieved first place in the cw (6 hours) section. My joy was matched with a twinge of apprehension as I began to open the brown envelope. It was addressed to Mr M.K. Iaquinto. Mr? There was a letter inside from Bill Roper, VK3ARZ, of the Federal WIA. That letter was addressed "Dear OM". Groan. C'mon, WIA, you can do better than this.

de Maggie VK3CFI

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A SIMPLE NI-CAD CHARGER

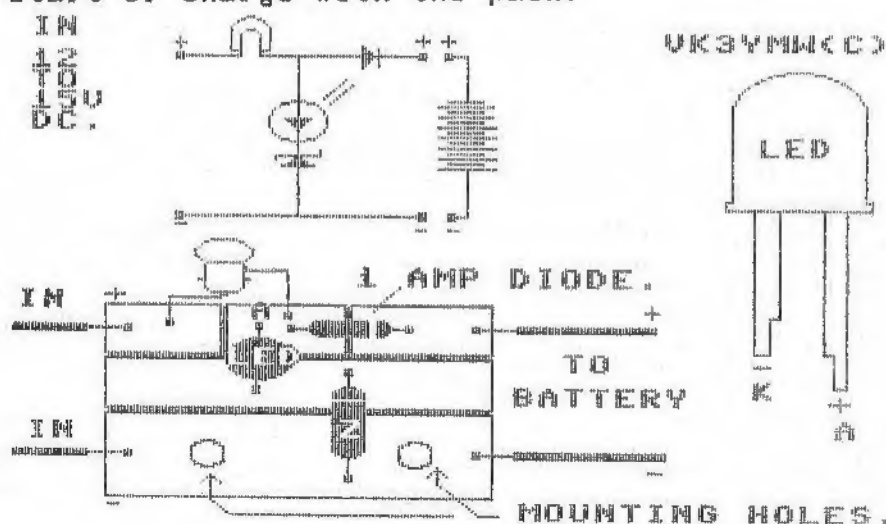
By VK3YMW.

I found this circuit in a book from Dick Smith, called "THE ENCYCLOPEDIA OF ELECTRONIC CIRCUITS". It's not perfect by any means but a lot better than the plug-packs as supplied with a lot of hand helds.

I scratched out a circuit board with a broken hack saw blade as per diagram. Components are mounted direct to the copper.

The charger is automatic, when the battery is low the globe shines, as the battery comes up the globe dims and the LED lights. When the battery is fully charged the current drops to a trickle and the battery can be left on indefinitely. At this stage the globe is completely off and only the LED is lit.

It depends on what voltage battery you are charging as to which zenner you select (fully charged battery voltage less 1.5 volts) A 1 Watt type is suitable. A 12 volt globe seems to be the right one for a 10.8 volt battery pack, there is only a couple of volts across the globe decreasing to zilch. I found a 6 volt globe gave too much current at the start of charge with the pack.



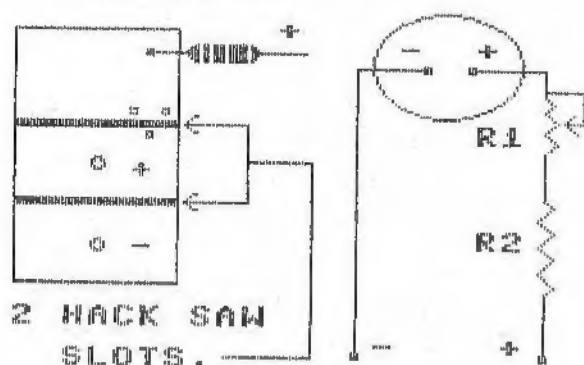
The diode is 1 AMP. The LED is red. It should be easy to adapt the charger to different battery voltages by fitting a multi-pole switch to bring in other zenners and globes.

I nearly forgot, you can also run the charger from the cigarette lighter socket in the car, although I haven't tried this.

CALIBRATING A VOLT METER

This is an easy way to calibrate a voltmeter if you haven't the right value resistor. Cut a piece of single sided circuit board to suit the meter you will be using. I used a pair of dividers to mark out the terminal holes. Cut two slots in the board as per illustration and drill three holes to suit which ever type trim pot you will be using. Mount the board copper side in.

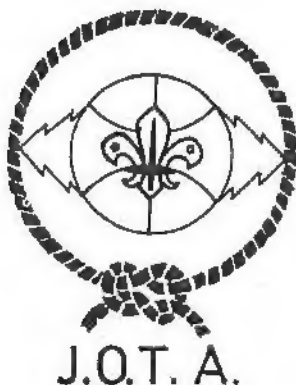
VK3YMW (C).



You can either drill the board and bolt a solder lug to it or solder the wires direct to the board.

EXAMPLES (100 Micro-amps Only).

CALCULATED				
RANGE		R1+R2	R1	R2
0-10 V.		100 K.	20 K.	82 K.
0-20 V.		200 K.	47 K.	180K.
0-100 V.		1 MEG.	47 K.	820K.
				+150k.



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JAMBOUREE OF THE AIR

DON'T FORGET THE WEEKEND OF OCT 15TH - 16TH

This year Ballarat area Scouts will be holding a camping weekend at Pax Hill. There will be a large number of Scouts, Guides and Cubs staying there over the weekend, taking part in many activities.

B.A.R.G. will be operating the club call VK3 BML from the camp Saturday and Sunday. So if you have a spare hour on either day pop out and join the group and assist the boys and girls with the activity. If you have a Scout, Cub, Guide or Brownie group near your QTH you may like to invite them to your shack and join in with Jambouree of the Air Activities.

For more information please contact Jeff Pigdon VK3 PAP on 32 7041.

Oscar I3.

Oscar I3 is up and going quite well but I do not think as good as Oscar IO was but perhaps things may improve in the future. Signal reports vary quite a lot from day to day likewise QSB and spin modulation.

Countries worked to date are.

KH6, KL7, VE5, XEI, 4XI, DL2, JA, ZL, IW5, KX6, FKI, FO8, ZM5, W5, 6, 7, 8, 9.

On 31.7.88. I worked ZM5BMK (Antarctica) which made 100 countries on Oscar IO.

Aluminium Tubing.

I have been in touch with McPhersons Metals in Wiltshire Lane regarding supplies of tubing for construction of antennas, they said they did not stock Aluminium, but the good news is they do now, this is sold in 6m lengths and the price is right.

Address is .McPhersons Metals. Wiltshire Lane, Ballarat. Phone 361155.

The Honda generator set donated by VK3CWC is ready to pick up. The single JA type socket has been replaced with Australian sockets.

Maurie VK3XEX.

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WICEN - ARE YOU A MEMBER?

How many readers know what WICEN is? or how it operates?
How many readers believe that they are registered members of WICEN?

Members of BARG who attended the last meeting are aware of WICEN, what it does, and the responsibilities on members.

Since I have taken over the role of co-ordinator of regions - 1, 15 and 16, I have become only too aware of the requirements. Now, I need your help, and to consider becoming a member/ and/or renewing your registration.

In simple terms WICEN wants members who are prepared to become community minded and :

1. Become proficient operators and, with their equipment, make themselves available to help provide Communications when an emergency arises, and is declared under the VICTORIAN 'DISPLAN' Legislation.
2. Make themselves available to do a certain amount of training to maintain these skills.

This training is to enable WICEN members to be able to operate with other agencies such as POLICE, CFA, SES and other disaster agencies.

These requirements are not excessive in times of disasters such as "ASH WEDNESDAY". You may be required to stay at a location for sometime until replaced on rare occasions.

This may seem that you may be putting your equipment at risk, but remember, if you, a registered member of WICEN and are on "DUTY", your equipment, car and yourself are covered for damage by "DISPLAN". Part of my responsibilities as co-ordinator are to see that you are looked after & fed etc.

Although WICEN is sponsored W.I.A., WICEN members are not required to be members of W.I.A., so this makes this community service available to all amateur radio enthusiasts and other approved people.

In our regions I am now looking for operators to join WICEN consider joining a team and/or becoming a team leader. This is because we may need back-up and relief people if an emergency is prolonged.

Will you renew your registration, or if not a member, become a member and fill in the registration form and the WICEN PHONE REGISTRATION FORM included in this newsletter.

GORDON GORNELL VK3PUW

ADVERTISING IN THIS MAGAZINE.

MEMBERS PLEASE SUPPORT OUR SPONSERS WHO APPEAR ON THE FRONT AND REAR OF OUR MAGAZINE AS THIS KEEPS OUR COSTS DOWN AND HENCE YOUR SUBS. "SAY YOU SAW IT IN THE B.A.R.G MAGAZINE"

Bob Editor.

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WICEN REGISTRATION FORM

Reg No

I, VK3.....

of Postcode
do agree to conduct myself and discharge my WICEN duties and obligations to the best of my ability.

I agree to use or display WICEN identification material only during periods of WICEN activation or during approved WICEN exercises. I agree to return to the Victorian WICEN committee all WICEN identification material immediately I, or the Victorian WICEN Committee, terminate my WICEN membership. I understand that WICEN Co-ordinators are responsible to the appointed Emergency Controller(s) during a civil emergency and I agree to comply to the best of my ability with the requests of WICEN Co-ordinators during a WICEN activation and during WICEN exercises.

I hereby apply to be registered as a volunteer emergency worker under the Emergency Management Act (Victoria).

Signed Date

Phone: Home Bus

Current Financial Member Of The W.I.A.

WICEN REGISTRATION FORM

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Signed Date

Phone: Home Bus

Current Financial Member Of The W.I.A.

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Location Number

WICEN PHONE REGISTRATION FORM

Name of Applicant:
Callsign (if any):
Address
Suburb
Phone Home (.....) Work (.....)
Next of Kin Phone
Address of Kin
Blood group (if known) Age
Known disabilities
Available for distant location: Max time away Hrs
Vehicle: Sedan ... Wagon ... Ute ... 4WD ... Other
Does vehicle have: HF ... 2mx ... 70cm ... Other
Equipment/Ants: HF 80mx ... HF 40mx ... HF 10mx ... HF CB ...
VHF 6mx ... VHF 2mx ...
UHF 70cm... UHF CB ...
Handheld radios: 2 mx ... 70 cm ... UHF CB ... HF CB ...
Other radios (marine, scanners, etc.)
Can you provide a suitable power supply for this equipment
Comments:

Information recorded by:
Position in organization:
Date information recorded:

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Msg # 3765 Type:B Stat:\$ To: ALL -AMSAT From: VK5AGR Date: 14-Nov/0108
Subject: AMSAT Weekend News Summary
Bulletin ID: ANS-247.01
Path: VK3CDE!VK3RPA!VK2EHQ!VK2OP!VK5AEI!VKSWI
From: VK5AGR-VKSWI

HR AMSAT NEWS SERVICE BULLETIN 247.01 FROM WA2LQQ
WARWICK, NY September 03, 1988
TO ALL RADIO AMATEURS BT

AMSAT OSCAR 13 operations continue on track. The current schedule should remain in effect until September 21. After that, a new schedule will be installed which will reflect the spacecraft attitude change which commences September 19. The reorientation should take only a few orbits to complete. This will be the first seasonally-related attitude change for AO-13.

On Friday, September 9, a special Mode L test will be performed to analyze the effects of radar noise on the Mode L receiver. As previously noted, Mode L receiver AGC levels have been up to -14 dB when the antenna is earth-pointing (at apogee) even when there are no audible signals in the passband. The AGC level falls to 0 dB (no gain reduction) when the receiving antenna is off-pointing from earth and looking towards space. This is the case near perigee.

On September 9, Mode L will be in operation throughout the entire orbit to allow measurements to be taken. The Mode L transponder should NOT be used. Reports from stations equipped with good 70 cm receiving systems and a spectrum analyzer are invited. They should check the entire passband to gather more information on the source of the noise according to DB20S.

Telemetry reports on Mode L AGC levels, especially from Pacific basin stations, are very much needed. Telemetry reports of the Mode L AGC and transmitter power should be forwarded to WA3WBU as previously described or may be relayed via AMSAT net stations.

No further progress on RUDAK has been reported but testing continues in hopes of finding a way around the current impasse.

The AMSAT-NA microsat project took a big step forward in late August when accurate models of the generic satellite passed a rigorous series of shake and vibration tests. The tests subjected the microsat bus to vibration levels much higher than AO-13 was subjected to. The tests were performed at Utah State University in Logan and, according to W3GEY, were passed with flying colors. Acceleration levels over 14 Gs in the vibration test and over 44 Gs in the shock test caused no problems for the rugged microsat bus, W3GEY said.

The AMSAT satellite news nets debuted on Friday, September 2 on Modes B and L. The Space Education Net will debut on AO-13 on Saturday, September 3. W8GQW says AMSAT nets will appear on AO-13 regularly; weekly if satellite windows allow. Watch these bulletins for times and dates. Downlink frequencies will be 145.960 and 435.888 MHz for Modes B and L, respectively. Mode J users will be accommodated on a downlink of 435.988 MHz. The SEN will use frequencies of 145.960 and 435.900 MHz according to K9PVW.

WA5ZIB says the first AO-13 ZRO-Test trial run will be September 24.

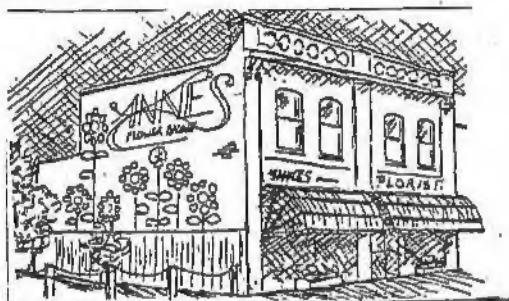
VK5AGR says AO-13 telemetry equations will be included in the telemetry stream beginning September 5. The equations will be sent a few at a time over a period of weeks.

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